What is Claimed is:

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- 1. In a system to control pathogens on a target element, the system including subjecting the target element to a disinfectant, the improvement comprising subjecting the target element to hypochlorous acid.
- 2. The system of Claim 1, wherein the hypochlorous acid is in the form of a hypochlorous acid stream of between about 4.3 and 7.0 pH.
- 3. The system of Claim 1, wherein the hypochlorous acid stream is formed by the following steps:
 - (a) combining an acid with a first carrier stream to form a first mixed stream;
- (b) introducing a chlorination agent into a control stream, the chlorination agent increasing the concentration of hypochlorous acid and hypochlorite of the control stream;
- (c) combining the first mixed stream with the control stream having the chlorination agent to form the hypochlorous acid stream.
 - 4. The system of Claim 1, wherein the target element is a poultry product.
- 5. In a system to control pathogens on a target element, the system including subjecting the target element to a disinfectant, the improvement comprising subjecting the target element to hypochlorous acid formed by the following steps:
 - (a) combining an acid with a first carrier stream to form a first mixed stream;
- (b) introducing a chlorination agent into a control stream, the chlorination agent increasing the concentration of hypochlorous acid and hypochlorite of the control stream;
- (c) combining the first mixed stream with the control stream having the chlorination agent to form the hypochlorous acid stream.
- 6. The system of Claim 5, wherein the ratio of hypochlorous acid to hypochlorite in the hypochlorous acid stream is greater than one.
- 7. The system of Claim 5, wherein the hypochlorous acid stream is about 77 to about 99 percent hypochlorous acid.
 - 8. The system of Claim 5, wherein after combining the first mixed stream with the control stream, the pH of the hypochlorous acid stream is between approximately 4.3 and approximately 7.0.
 - 9. The system of Claim 5, wherein the first mixed stream is pressurized.
 - 10. The system of Claim 5, wherein the control stream with a chlorination agent is pressurized.

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- 11. The system of Claim 5, wherein the acid includes carbon dioxide.
- 12. The system of Claim 5, wherein the first carrier stream is pressurized to at least about 50 psi.
- 13. In a system for controlling pathogens during the processing of animals into food including conveying an animal carcass through processing equipment, the improvement comprising subjecting the animal carcass to hypochlorous acid.
 - 14. The system of Claim 13, wherein the hypochlorous acid is in the form of a hypochlorous acid stream of between about 4.3 and 7.0 pH.
- 15. The system of Claim 13, wherein the hypochlorous acid stream is formed by the following steps:
 - (a) combining an acid with a first carrier stream to form a first mixed stream;
 - (b) introducing a chlorination agent into a control stream, the chlorination agent increasing the concentration of hypochlorous acid and hypochlorite of the control stream;
 - (c) combining the first mixed stream with the control stream having the chlorination agent to form the hypochlorous acid stream.
 - 16. The system of Claim 13, wherein the animal/animal carcass is conveyed through a pick/kill area, wherein the animal carcass is subjected to a hypochlorous acid stream in the pick/kill area.
 - 17. The system of Claim 13, wherein the animal carcass is conveyed through an evisceration area, wherein the animal carcass is subjected to a hypochlorous acid stream in the evisceration area.
 - 18. The system of Claim 13, wherein the animal carcass is conveyed through a chilling area, wherein the animal carcass is subjected to a hypochlorous acid stream in the chilling area.
- 25 19. The system of Claim 17, wherein the animal carcass also is conveyed through an evisceration area, wherein the animal carcass is subjected to a hypochlorous acid stream in the evisceration area.
 - 20. The system of Claim 19, wherein the animal carcass also is conveyed through a chilling area, wherein the animal carcass is subjected to a hypochlorous acid stream in the chilling area.